Ethernet to Coax HPNA Adapter

Model # HCB1000

Actiontec Electronics, the leader in home and small business networking, delivers yet another technological breakthrough with its newest innovation: the Ethernet to Coax HPNA Adapter (HCB1000). The HCB1000 is designed to connect between two distinct and discrete networking types: standard (and ubitquitous) 10/100BaseT Ethernet, and coax cabling, the new and emerging method to pipe multimedia into today's homes and offices. By bridging these two environments, the HCB1000 enables the distribution of rich digital content in buildings and homes driven by emerging applications and/or devices from telco service providers, such as multi-room IPTV DVRs (digital video recorders).

The Next Generation Today

As homes and offices become increasingly equipped with multiple, high-definition network streams, and DVRs continue to penetrate the commercial IPTV market, the need for increased bandwidth within the home and office is becoming critical. The wired network is no longer simply a series of pathways to transfer small files or share applications; there is now a real need for high-performance IP networking that can deliver huge multimedia files at high rates of speed with no dropouts. Which is where the HCB1000 comes in. Supporting point-to-point and point-to-multipoint network configurations while transmitting data according to the HPNA 3.1-over-coax specification, the HCB1000 is robust enough to handle any transfer loads you can throw its way. It's also optimized to provide high-speed delivery of video and VoIP (Voice of Internet Protocol) data with little or no packet loss.

Easy to Install, Hard to Outperform

With its ease-of-use, simple and seamless integration, and endless possibilities for network expansion over existing cabling configurations, the HCB1000 is perfect for condominiums, apartment buildings, multi-firm office buildings, hotels, resorts, convention centers, or any location requiring the latest in high-speed Internet connections and high-bandwidth networks, without the trouble and high cost of infrastructure modifications. Designed for tomorrow's networking needs today, the HCB1000 opens up residential and small-office networking like no other product before it.

Features

- Perfect for transferring large multimedia files such as movies, music, and photos
- Uses existing coax cabling
- Supports speeds up to 144 Mpbs burst, 95 Mbps sustained
- Complies with the HPNA 3.1 over coax specification (ITU G.9954)
- Supports point-to-point and point-to-multipoint network configurations

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HPNA Adapter

Technical Specifications

Features	Descriptions
Interface Ports	• Two Type F ports for the HPNA Coaxial cable and a Set-top Box • Two RJ-45 ports 10/100Base-T Ethernet LAN • One power port
Front Panel	• Eight visual indicators: Ethernet(2), SYNC, HPNA, PC/LAN, STB/MODEM, POWER, STB/TV
LED Function	**SYNC** Solid Green: HPNA host is detected Off: Power off , HPNA host is not detected **HPNA** Solid Green: HPNA link is established Off: Power off , HPNA link is not established **PC/LAN** Solid Green: Ethernet link is established on the PC/LAN port Off: Ethernet link is disconnected or device power off **STB/MODEM** Solid Green: Ethernet link is established on the STB/MODEM port Off: Ethernet link is disconnected or device power off **Power** Solid Green: Power is being applied to bridge Solid Red: Bridge malfunctions or Power fail Off: Power off **STB/TV** Type F connector connects to a set-top
Enclosure physical dimensions	Length: 5 inch Width: 3 inch Height: 1 inch
Ethernet Ports	• Compliant with IEEE 802.3 and IEEE 802.3u. • Supports Auto-MDIX. • Dual 10/100 RJ-45 Ethernet ports to support multiple IP devices per bridge including PCs and DSL modems
Power Requirements	• Operating voltage: +5V +/- 10% • Power Dissipation: 5V DC @ 1000 mA (Max)
Environmental Operating Range	• Operating temperature: -5~50 degrees Celsius • Humidity: 8-95%, non-condensing
Required Regulatory Approvals and Compliance	• EMI/Immunity: FCC part 15 Class B • UL

Package Contents

- Ethernet to Coax HPNA Adapter
- Power adapter
- Quick Start Guide
- Ethernet Cable

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